

Title (en)

Method for optimising the voltage distribution in acoustic thermography applications

Title (de)

Verfahren zur Optimierung der Spannungsverteilung bei Anwendungen akustischer Thermographie

Title (fr)

Procédé d'optimisation de la répartition de tension dans des applications de thermographie acoustique

Publication

EP 2090886 A3 20131106 (DE)

Application

EP 09150992 A 20090121

Priority

DE 102008008609 A 20080212

Abstract (en)

[origin: EP2090886A2] The method involves performing a simulation under test conditions on a CAD model of an object before testing of the object. Vibrational spectra and modal vibrational forms are computed. Mechanical stress is determined from the vibrational spectra and modal vibrational forms. Modes to be excited for the real testing are selected from the whole of arising modes such that the mechanical stress lies within a selected region above a given minimum stress. The mechanical stress in all other regions of a testing part is smaller than a given maximum stress by a given factor.

IPC 8 full level

G01N 29/12 (2006.01); **G01N 29/30** (2006.01); **G01N 29/44** (2006.01)

CPC (source: EP US)

G01N 29/12 (2013.01 - EP US); **G01N 29/30** (2013.01 - EP US); **G01N 29/4418** (2013.01 - EP US); **G01N 29/4472** (2013.01 - EP US); **G01N 2291/014** (2013.01 - EP US); **G01N 2291/2693** (2013.01 - EP US)

Citation (search report)

- [A] US 5886263 A 19990323 - NATH ROBERT H [US], et al
- [A] US 5493511 A 19960220 - WINCHESKI BUZZ A [US], et al

Cited by

CN110715783A; EP2546619A1; CN103149277A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2090886 A2 20090819; **EP 2090886 A3 20131106**; DE 102008008609 A1 20090813; US 2009204345 A1 20090813; US 7974791 B2 20110705

DOCDB simple family (application)

EP 09150992 A 20090121; DE 102008008609 A 20080212; US 36169509 A 20090129